**7-13 ｜ IM系统的核心handler模块测试**

测试核心类：

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| Java package imclient;  import io.netty.bootstrap.Bootstrap; import io.netty.channel.Channel; import io.netty.channel.ChannelFuture; import io.netty.channel.ChannelInitializer; import io.netty.channel.EventLoopGroup; import io.netty.channel.nio.NioEventLoopGroup; import io.netty.channel.socket.SocketChannel; import io.netty.channel.socket.nio.NioSocketChannel; import org.qiyu.live.im.core.server.common.ImMsg; import org.qiyu.live.im.core.server.common.ImMsgDecoder; import org.qiyu.live.im.core.server.common.ImMsgEncoder; import org.qiyu.live.im.interfaces.ImMsgCodeEnum;  /\*\*  \* @Author idea  \* @Date: Created in 11:20 2023/7/1  \* @Description  \*/ public class ImClientApplication {    private void startConnection(String address, int port) throws InterruptedException {  EventLoopGroup clientGroup = new NioEventLoopGroup();  Bootstrap bootstrap = new Bootstrap();  bootstrap.group(clientGroup);  bootstrap.channel(NioSocketChannel.class);  bootstrap.handler(new ChannelInitializer<SocketChannel>() {  @Override  protected void initChannel(SocketChannel ch) throws Exception {  System.out.println("初始化连接建立");  ch.pipeline().addLast(new ImMsgDecoder());  ch.pipeline().addLast(new ImMsgEncoder());  ch.pipeline().addLast(new ClientHandler());  }  });  ChannelFuture channelFuture = bootstrap.connect(address, port).sync();  Channel channel = channelFuture.channel();  for (int i = 0; i < 100; i++) {  channel.writeAndFlush(ImMsg.build(ImMsgCodeEnum.IM\_LOGIN\_MSG.getCode(), "login"));  channel.writeAndFlush(ImMsg.build(ImMsgCodeEnum.IM\_LOGOUT\_MSG.getCode(), "logout"));  channel.writeAndFlush(ImMsg.build(ImMsgCodeEnum.IM\_BIZ\_MSG.getCode(), "biz"));  channel.writeAndFlush(ImMsg.build(ImMsgCodeEnum.IM\_HEARTBEAT\_MSG.getCode(), "heart"));  Thread.sleep(3000);  }  }   public static void main(String[] args) throws InterruptedException {  ImClientApplication client = new ImClientApplication();  client.startConnection("localhost", 9090);  } } |

相关handler：

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| Java package imclient;  import io.netty.channel.ChannelHandlerContext; import io.netty.channel.ChannelInboundHandlerAdapter; import org.qiyu.live.im.core.server.common.ImMsg;  /\*\*  \* @Author idea  \* @Date: Created in 22:15 2023/7/8  \* @Description  \*/ public class ClientHandler extends ChannelInboundHandlerAdapter {   @Override  public void channelRead(ChannelHandlerContext ctx, Object msg) throws Exception {  ImMsg imMsg = (ImMsg) msg;  System.out.println("【服务端响应数据】result is " + imMsg);  } } |